



PTO/SB/21 (02-04)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

413

Application Number	10/790,404
Filing Date	March 1, 2004
First Named Inventor	Richard Andrew Holland
Art Unit	
Examiner Name	
Attorney Docket Number	120478

Total Number of Pages in This Submission

413 Attorney Docket Number

ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Remarks	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Declaration of Inventorship/Power of Attorney
---	--	--

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Livinia N. Jones, Esq. McQuaide Blasko 811 University Drive, State College, PA 16801
Signature	
Date	June 7, 2004

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Autumn Vanatta
Signature	
Date	June 7, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

06/10/2004 JADD01 0000066 10790404

01 FG+2051

65.00 DP



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

2

Complete if Known	
Application Number	10/790,404
Filing Date	March 1, 2004
First Named Inventor	Richard Andrew Holland
Art Unit	
Examiner Name	
Attorney Docket Number 120478	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Analytic Reductions for Transmission and Leakage Probabilities in Finite Tubes and Hexahedra, 104 Nucl. Sci. & Eng., 209-216 (1990)	
		A Transport Method for Treating Three Dimensional Lattices of Heterogeneous Cells, 101 Nucl. Sci. & Eng., 217-225 (1989)	
		J. KARKKAINEN & E. UKKONEN, Two- and Higher-Dimensional Pattern Matching in Optimal Expected Time, 29 SIAM J. COMPUT., 571-589 (1999)	
		R. BELMAN, G.M. WING, An Introduction to Invariant Imbedding, R. Belman, SIAM (1992) ISBN 0-89871-304-8	
		A. SHIMIZU, Development of Angular Eigenvalue Method for Radiation Transport Problems, 37 J. Nuclear Science and Technology, 15-25 (2000)	
		OLVEY et al., Accuracy Comparisons for Variational R, T and T-1 Response Matrix Formulations, 14 Annals of Nuclear Energy, 203-209 (1987)	
		STERNICK et al., The Theory & Practice of Intensity Modulated Radiation Therapy, Advanced Medical Publishing, 37-49 (1997)	
		Y. NIEVERGELT, Wavelets Made Easy, Birkhauser (1999) ISBN 0-8176-4061	
		P.R. BEVINGTON, Data Reduction and Error Analysis for the Physical Sciences, page 153, McGraw Hill Book Company, (1969) Library of Congress Catalogue number 69-16942	
		R.D. LAWRENCE and J.J. DORNING, A Nodal Green's Function Method for Multidimensional Diffusion Calculations, Nuclear Science and Engineering 76, 218-231 (1980)	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/790,404
				Filing Date	March 1, 2004
				First Named Inventor	Richard Andrew Holland
				Art Unit	
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	120478

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
		F.C. LOCKWOOD and N.G. SHAH, A New Radiation Solution Method for Incorporation in General Combustion Prediction Procedures, Imperial College of Science and Technology, London.		
		E. CASHWELL & C. EVERETT, The Practical Manual on the Monte Carlo Method for Random Walk Problems, Pergamon Press (1959). [OUT OF PRINT]		
		K. KOBAYASHI, et al. 3D Radiation Transport Benchmark Problems and Results for Simple Geometries with Void Region. Progress in Nuclear Engineering, Vol. 39, No. 2, pp. 119-144, 2001.		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.
 This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.